In re Appln. of: Gueorgui B. Chkodrov et al. Application No. 09/606,973

REMARKS

This paper is in response to an Office Action dated May 5, 2003 as a supplemental action regarding patent application with serial number 09/606,973. Claims 1-31 are pending and stand rejected.

The Examiner is requested to approve the accompanying replacement drawings. The changes to the drawings are to correct top margin deficiencies. Claims 28 and 31 stand rejected under 35 U.S.C. 112, second paragraph. Claim 28 has been amended to address the antecedent basis for "mission-critical server" by amending the Claim to read "mission-critical program". The amendment addresses the rejection Claim 31, which depends from Claim 28. Claims 1-31 stand rejected under 35 U.S.C 102(b) as being anticipated by Davidson, U.S. Pat. No. 5,819,093.

New Claims 32-34 have been added. New Claim 32 has support on page 14. New claims 33 and 34 have support on pages 19 and 20 in the Specification.

Applicant respectfully traverse the rejections under 35 U.S.C. 102(b) and requests reconsideration of the rejections based on the arguments presented below.

Claims 1-4, 7 stand rejected by Davidson. Davidson teaches a debugger for object oriented programs over a distributed computing system. In particular, Davidson enables application programmers to debug programs using objects on remote servers. To do so, Davidson relies on a debugger engine "dbx-engine" in the remote server. Col. 11, line 27 et seq. More particularly, the dbx-engine is started on the server using a dbxWrapperFactory object, as described with Figure 14. A dbx-engine is not multi-thread safe (MT safe) and must be created on each remote host and be instructed to attach to a server. A "wrapper server" on the remote host then creates two threads. One thread waits for the dbx-engine to terminate and the other thread waits for a message from the dbx-engine that the dbx-engine is fully started. Col. 11, lines 43-67. When one thread resumes, the other thread is destroyed and the wrapper server is notified, and the dbx-engine is created on the remote host. The new dbx-engine sets a breakpoint in the remote server to check for a match of id, host name and client address. Afterward, the debugger on the remote server is implemented and another breakpoint is set on the thread in the remote server according to a call of a trigger function, which is a function which directly calls

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the function at issue implemented by the user (Col. 11, liens 20-22). After the breakpoint is set for that thread, the server is continued. Col. 12, lines 19-41. Each occurrence of the user-identified function in the Interface Definition Language (IDL), whether automatically generated or not, will cause the breakpoint to fire. Col. 12, lines 46-50. If a check determines that the code is IDL generated code, another breakpoint is set and execution is continued. Col. 12, lines 49-51.

Claim 1 as amended provides for "loading a debugger into a thread of execution of the program independent of a breakpoint; and running the debugger in the thread of execution to debug the program." Support for the amendment is found generally on page 11 and 15 of the Specification. In contradistinction, Davidson teaches a dbx-engine debugger that relies on breakpoints in the thread of execution. Further, Davidson provides a debugger that sets breakpoints in the thread of execution. Davidson neither teaches nor suggests loading a debugger into a thread of execution of a program independent of a breakpoint as claimed, and Claim 1 is allowable. Claims 2-14 depend from Claim 1 and are believed allowable with Claim 1.

Claims 15-19 and 26 stand rejected by Davidson. Claim 15 as amended provides for "halting the thread of execution <u>independent of a breakpoint</u>" Support for the amendment is found generally on page 11 and 15 of the Specification. Davidson teaches a dbx-engine debugger that relies on breakpoints in the thread of execution. Further, Davidson provides a debugger that sets breakpoints in the thread of execution. Davidson neither teaches nor suggests halting the thread of execution independent of a breakpoint as claimed, and Claim 15 is allowable. Claims 16-22 depend from Claim 15 and are believed allowable with Claim 15.

Regarding Claim 26, the rejection is improper. Claim 26 contains elements not addressed in the Office Action in accordance with 37 C.F.R. 1.104(b). Accordingly, a next Office Action should be non-final in nature. Moreover, Davidson fails to teach "allowing other threads of execution to continue" as taught by Claim 26. Claims 27-31 depend from Claim 26 and are believed allowable with Claim 26.

Claim 23 provides inter alia, that a "debugger converts the command into a function call to the object" unlike Claims 1-4 and 7, accordingly, the rejection of Claim 23 is improper.

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Unlike Davidson, Claim 23 provides that the "debugger" performs the converting of the command. Davidson provides for a server to perform converting of a command into a function call: "The server side libraries 160, 162 convert a request from a client to a call to a user provided function 164 that implements the operation." Col. 9, lines 27-31. Accordingly, Davidson neither teaches nor suggests that a "debugger converts the command into a function cal to the object." Claim 23 is believed allowable with Claims 24-25, which depend on Claim 23.

Conclusion

Claims 1-31 are pending. Claims 32-34 have been added. The rejection to the drawings has been addressed by the enclosed replacement drawings. The rejection of Claims 28 and 31 under 35 U.S.C. 112 has been addressed by amendment to Claim 28. The rejection of each independent claim has been traversed.

The application is considered in good and proper form for allowance, and the Examiner is respectfully requested to pass this application to issue. If, in the opinion of the Examiner, a telephone conference would expedite the prosecution of the subject application, the Examiner is invited to call the undersigned attorney.

Respectfully symitted

Jeffery Makegvel, Reg. No. 37390

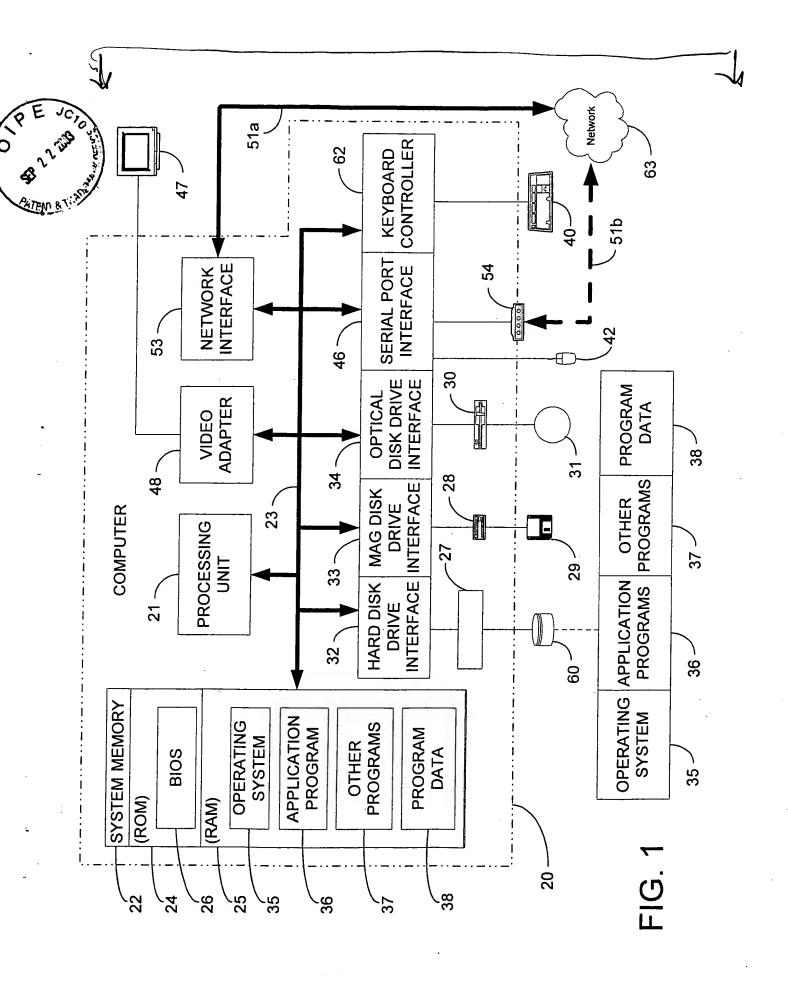
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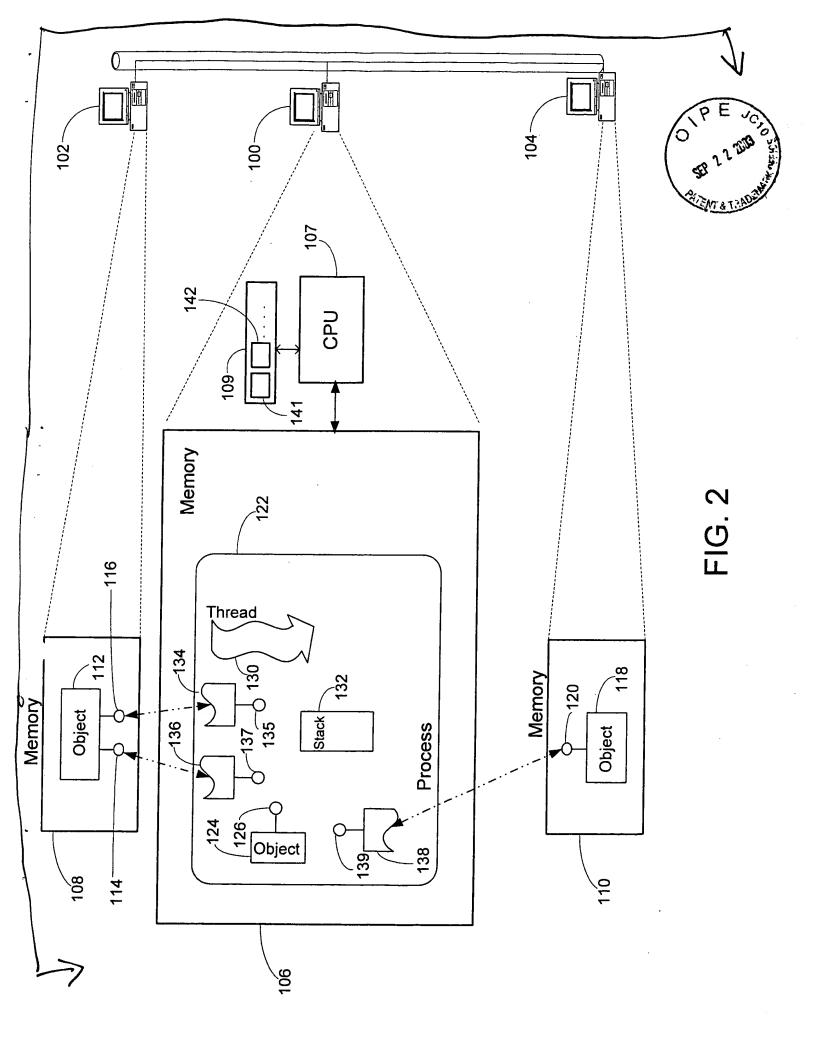
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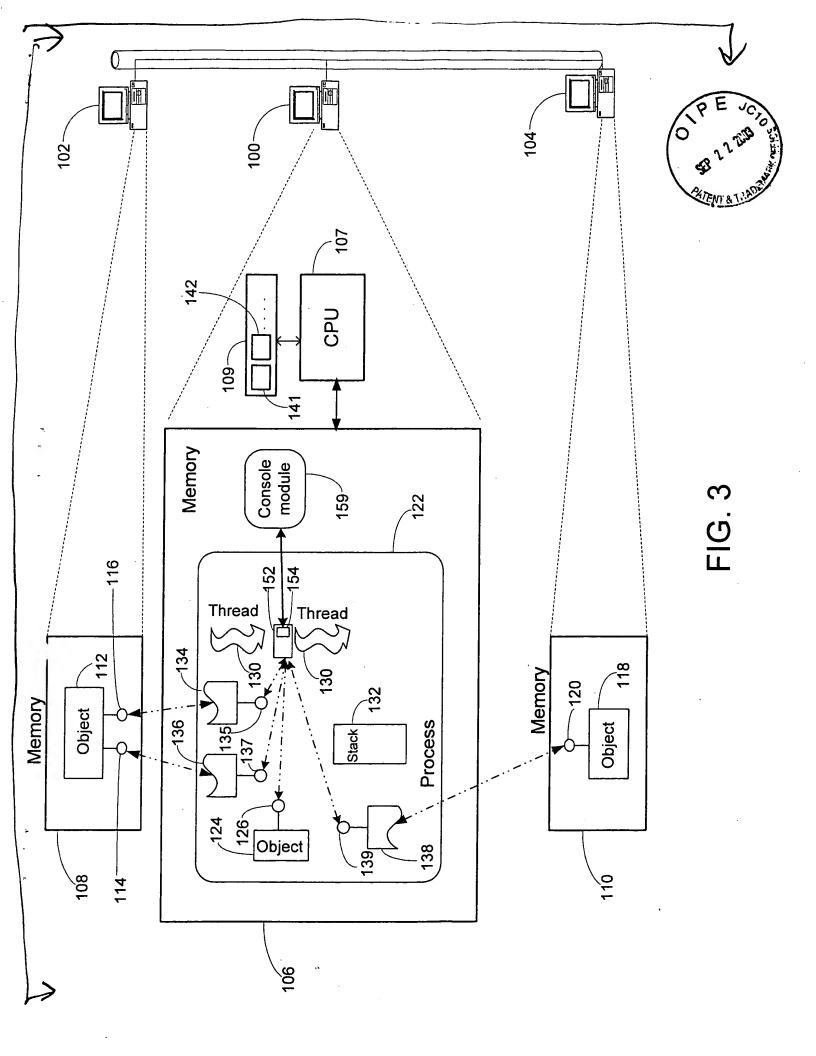
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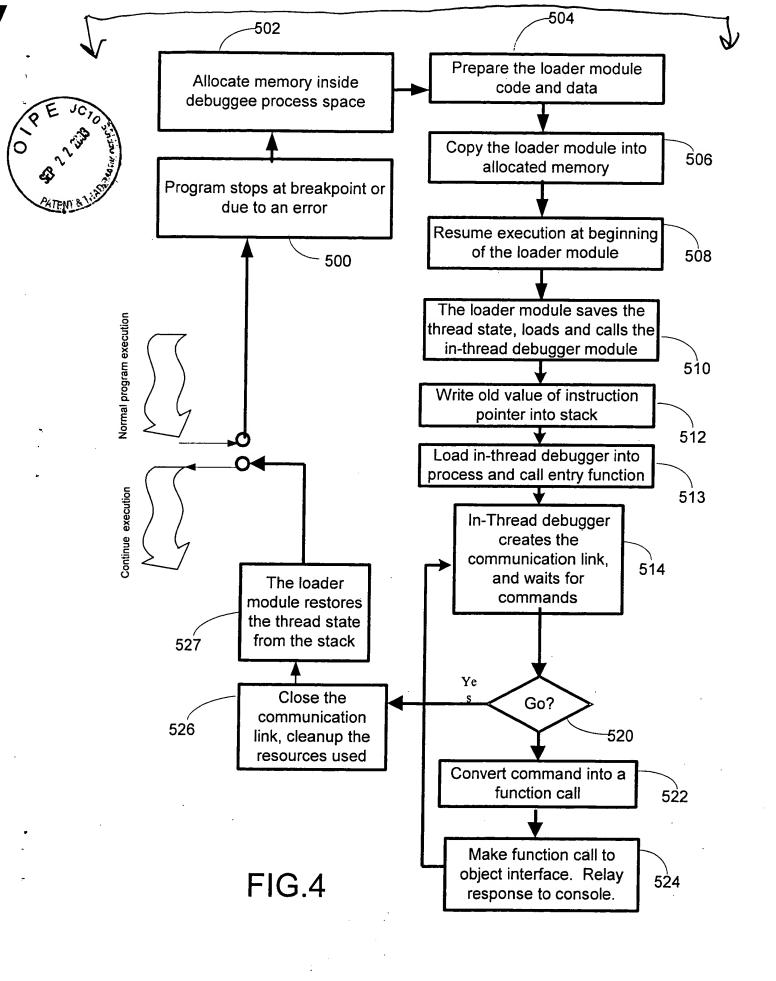
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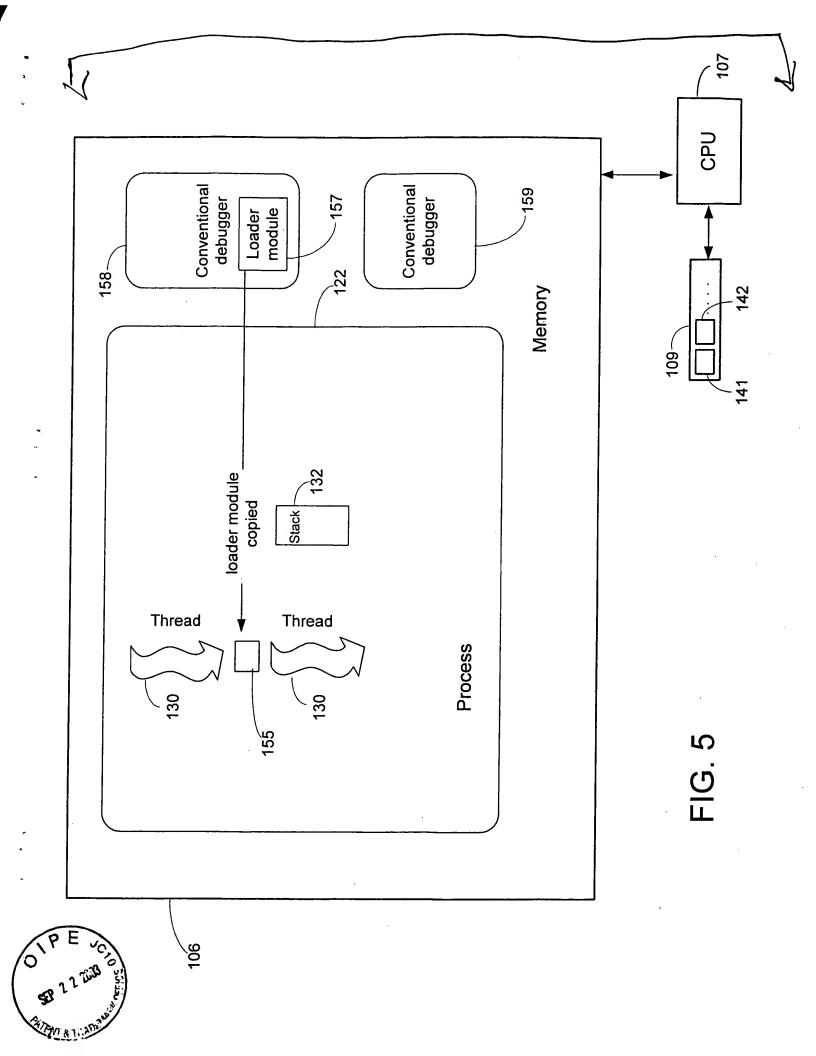
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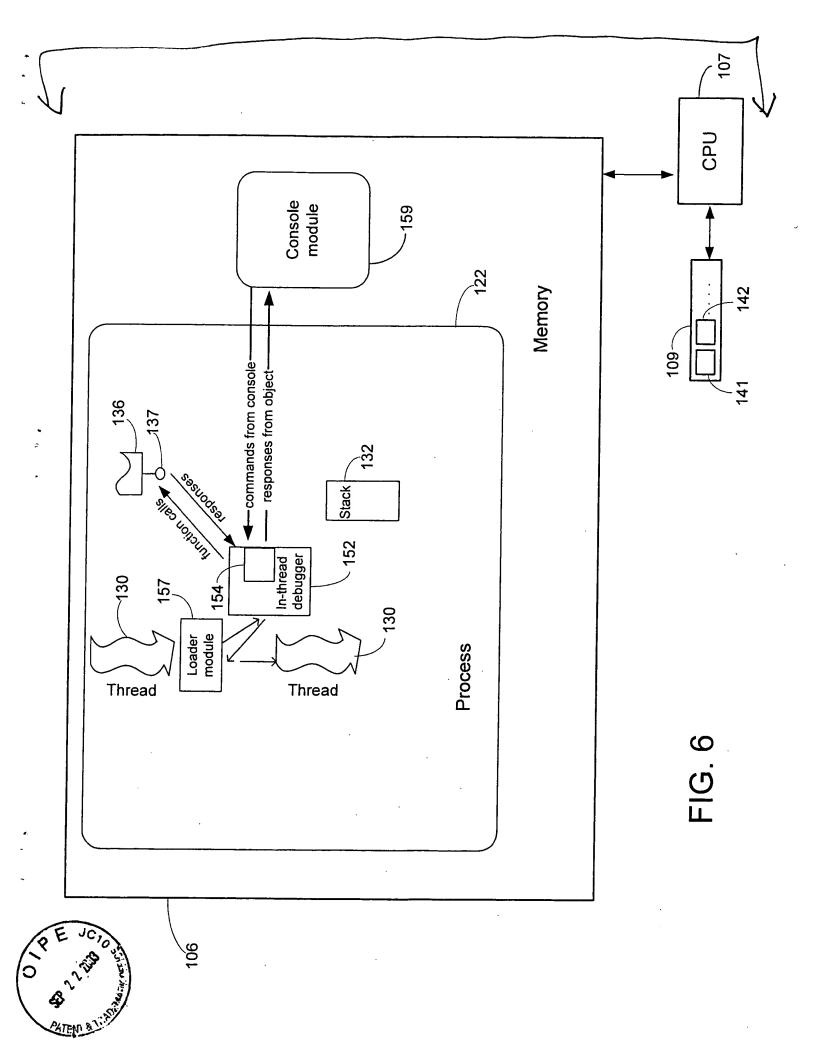


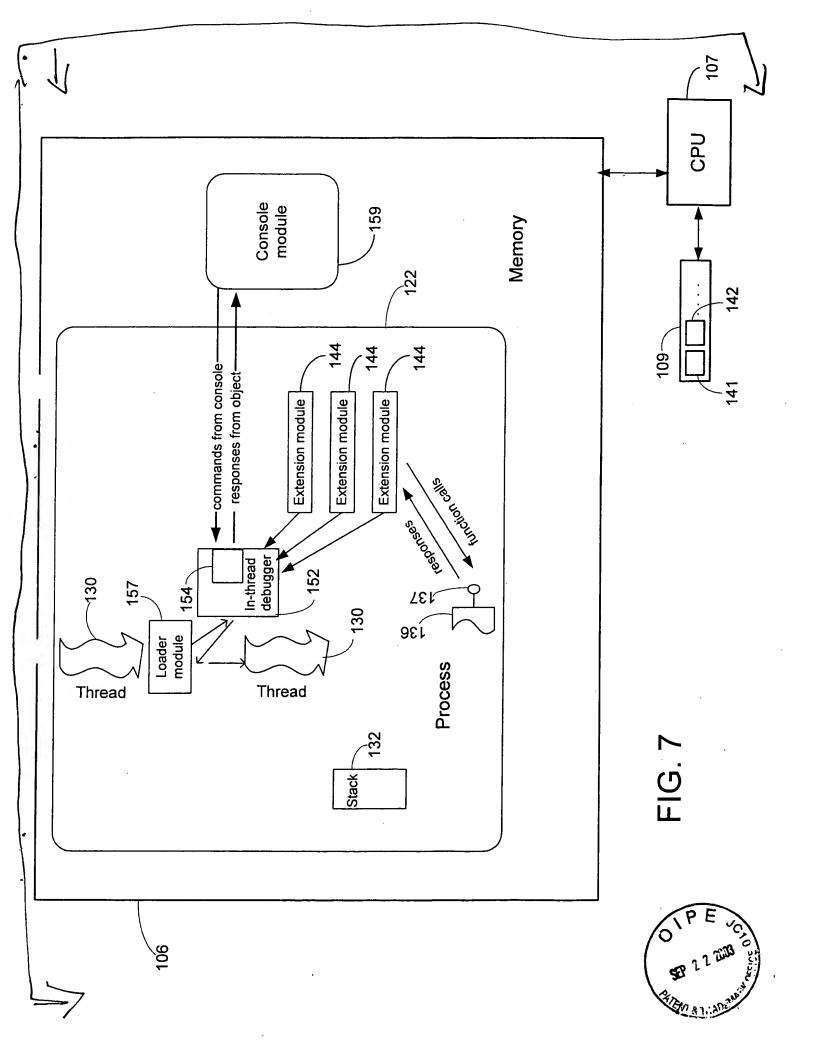












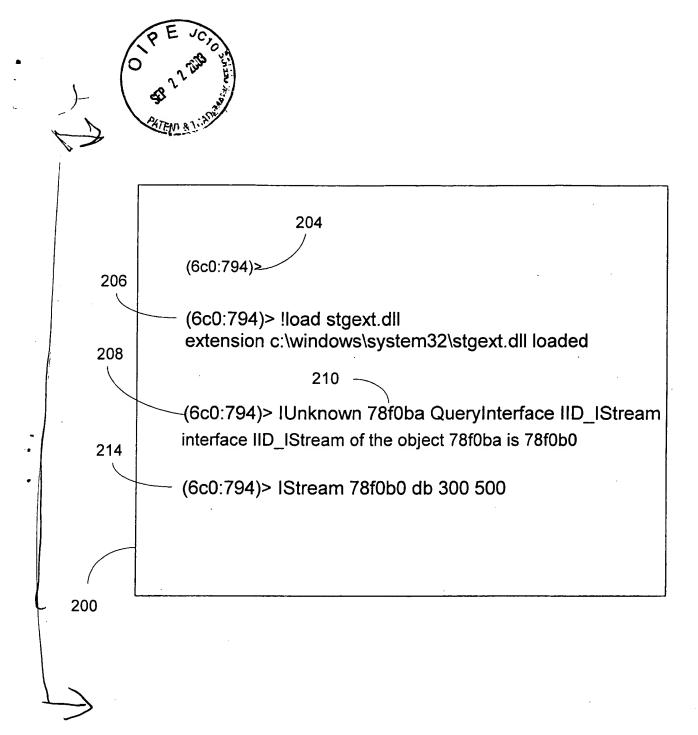


FIG. 8



